

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"20050284573"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/11 19:12
S2	11	("4793961" "4447732" "5198677" "6094012" "5945677").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 08:49
S3	336	((ion near2 (implant\$3 source\$2)) near5 orient\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 09:29
S4	253	((ion near2 (implant\$3 source\$2)) near5 orient\$5	US-PGPUB; USPAT	OR	ON	2006/07/12 08:55
S5	95	S4 and ("250"/\$.cls. "315"/\$.cls.)	US-PGPUB; USPAT	OR	ON	2006/07/12 09:30
S6	71	S5 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/18 13:01
S7	2	((plasma near4 ion\$2) near2 (implant\$3 source\$2)) near5 orient\$5	US-PGPUB; USPAT	OR	ON	2006/07/12 09:29
S8	1	"5036252".pn.	US-PGPUB; USPAT	OR	ON	2006/07/12 09:08
S9	121494	((ion near2 (implant\$3 source\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 09:29
S10	3356	((plasma near4 ion\$2) near2 (implant\$3 source\$2))	US-PGPUB; USPAT	OR	ON	2006/07/12 11:20
S11	1098	S10 and ("250"/\$.cls. "315"/\$.cls.)	US-PGPUB; USPAT	OR	ON	2006/07/12 09:30
S12	938	S11 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2006/07/12 10:49
S13	75	S12 and (chamber near7 top)	US-PGPUB; USPAT	OR	ON	2006/07/12 10:32
S14	128	S10 and (orient\$5 near6 vertical\$3)	US-PGPUB; USPAT	OR	ON	2006/07/12 11:22
S15	99	S14 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2006/07/12 12:57
S16	88	S15 not S13	US-PGPUB; USPAT	OR	ON	2006/07/12 11:17
S17	1	"6967334".pn.	US-PGPUB; USPAT	OR	ON	2006/07/12 11:17
S18	2	("4926056"   "6238582").PN	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/12 11:18

S19	54	((masayasu near2 suzuki).in.	US-PGPUB; USPAT	OR	ON	2006/07/12 11:18
S20	19	S19 and ion\$2	US-PGPUB; USPAT	OR	ON	2006/07/12 11:18
S21	5661	((plasma near4 ion\$2) near2 (generat\$3 source\$2 gun))	US-PGPUB; USPAT	OR	ON	2006/07/12 11:21
S22	1097	S21 and ((118/715-733.col. 156/345.2.col.))	US-PGPUB; USPAT	OR	ON	2006/07/12 11:21
S23	62	S22 and (orient\$5 near6 vertical\$3)	US-PGPUB; USPAT	OR	ON	2006/07/12 11:27
S24	21	S22 and (fac\$3 near4 downward\$2)	US-PGPUB; USPAT	OR	ON	2006/07/12 11:27
S25	5980	((ion near implant\$5) near4 deposit\$4	US-PGPUB; USPAT	OR	ON	2006/07/12 12:49
S26	1	S25 and ((substrate wafer object) near4 (fac\$3 adj downward\$2))	US-PGPUB; USPAT	OR	ON	2006/07/12 12:51
S27	1317	Plasma near3 (ion adj source)	US-PGPUB; USPAT	OR	ON	2006/07/12 12:54
S28	4	S27 and ((substrate wafer object) near4 (fac\$3 adj downward\$2))	US-PGPUB; USPAT	OR	ON	2006/07/12 12:51
S29	9628	((ion near3 implant\$5) and ((substrate wafer object target) near5 (fac\$3 downward\$2)))	US-PGPUB; USPAT	OR	ON	2006/07/12 12:56
S30	7852	((ion near3 implant\$5) and ((substrate wafer object target) near3 (fac\$3 downward\$2)))	US-PGPUB; USPAT	OR	ON	2006/07/12 12:55
S31	7384	((ion adj implant\$5) and ((substrate wafer object target) near3 (fac\$3 downward\$2)))	US-PGPUB; USPAT	OR	ON	2006/07/12 12:56
S32	3668	S31 and plasma	US-PGPUB; USPAT	OR	ON	2006/07/12 12:56
S33	141	((ion near3 implant\$5) and ((substrate wafer object target) near5 (fac\$3 adj downward\$2)))	US-PGPUB; USPAT	OR	ON	2006/07/12 13:12
S34	121	S33 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2006/07/12 13:37
S35	97	S34 and plasma	US-PGPUB; USPAT	OR	ON	2006/07/12 12:57
S36	97	S35 not S23	US-PGPUB; USPAT	OR	ON	2006/07/12 12:57
S37	16	((ion near5 implant\$5 near6 source) and ((substrate wafer object target) near5 (fac\$3 adj downward\$2)))	US-PGPUB; USPAT	OR	ON	2006/07/12 13:01
S38	0	((ion near3 implant\$5) same ((substrate wafer object target) near5 (fac\$3 adj downward\$2)))	US-PGPUB; USPAT	OR	ON	2006/07/12 13:12
S39	3	((ion near3 source) same ((substrate wafer object target) near5 (fac\$3 adj downward\$2)))	US-PGPUB; USPAT	OR	ON	2006/07/12 13:12
S40	3	"6504294".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:35

S41	1662	((workpiece substrate wafer object) near3 (fac\$3 adj downward\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:37
S42	164	S41 and (ion near3 (source beam implant\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 13:37
S43	145	S42 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2006/07/12 13:38
S44	105	S43 and plasma	US-PGPUB; USPAT	OR	ON	2006/07/12 13:38
S45	6	"5883391".pn. "5920076".pn. "5977552".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/07/12 16:17
S46	70	(extraction adj electrode\$2) same cool \$3	US-PGPUB; USPAT	OR	ON	2006/07/12 16:19
S47	9	(extraction adj electrode\$2) near7 cool \$3	US-PGPUB; USPAT	OR	ON	2006/07/12 17:14
S48	22	(extraction adj electrode\$2) near7 pump\$3	US-PGPUB; USPAT	OR	ON	2006/07/12 17:44
S49	1	"3961103".pn.	US-PGPUB; USPAT	OR	ON	2006/07/12 17:44
S50	2	"20050098742"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/17 11:16
S51	1924	(applied materials).as. and implant\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/17 11:17
S52	1208	(applied materials).as. and implant\$5	US-PGPUB; USPAT	OR	ON	2007/01/17 11:17
S53	79	S52 and (plasma same extract\$4)	US-PGPUB; USPAT	OR	ON	2007/01/17 11:31
S54	62	S53 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 11:46
S55	0	S52 and ((extract\$4 with (chamber near4 top)) and ((substrate wafer) with down\$6))	US-PGPUB; USPAT	OR	ON	2007/01/17 11:45
S56	0	(ion near4 implant\$5) and ((extract\$4 with (chamber near4 top)) and ((substrate wafer) with down\$6))	US-PGPUB; USPAT	OR	ON	2007/01/17 11:58
S57	23	(ion near4 implant\$5) and (extract\$4 with (chamber near4 top))	US-PGPUB; USPAT	OR	ON	2007/01/17 11:46
S58	20	S57 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 12:13

S59	12	((ion near4 implant\$5) and (extract\$4 with (chamber near4 top)) and ((substrate wafer) with (up down\$6 top))	US-PGPUB; USPAT	OR	ON	2007/01/17 12:00
S60	2	((ion near4 (source general\$3)) and (extract\$4 with (chamber near4 top)) and ((substrate wafer) with (up down\$6 top)))	US-PGPUB; USPAT	OR	ON	2007/01/17 12:01
S61	2	((ion\$2 near4 (extract\$4 with (chamber near4 top))) and ((substrate wafer) with (up down\$6 top)))	US-PGPUB; USPAT	OR	ON	2007/01/17 12:02
S62	0	S62 and (extract\$4 with (chamber near4 top)) and ((substrate wafer) with (up down\$6 top))	US-PGPUB; USPAT	OR	ON	2007/01/17 12:03
S63	0	S62 and (extract\$4 with (chamber near4 top)) and (substrate wafer)	US-PGPUB; USPAT	OR	ON	2007/01/17 12:10
S64	0	S61 and (extract\$4 with (chamber near4 top)) and (substrate wafer)	US-PGPUB; USPAT	OR	ON	2007/01/17 12:05
S65	2225	250/396.R.489.ccls.	US-PGPUB; USPAT	OR	ON	2007/01/17 12:09
S66	4	S62 and (extract\$4 near6 top) and (substrate wafer)	US-PGPUB; USPAT	OR	ON	2007/01/17 12:11
S67	3	S65 and ((extract\$4 near6 top) and (substrate wafer))	US-PGPUB; USPAT	OR	ON	2007/01/17 12:13
S68	70	S65 and (extract\$4 same (substrate wafer))	US-PGPUB; USPAT	OR	ON	2007/01/17 12:24
S69	55	S68 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 12:43
S70	2580	204/192.11.192.12.192.34.ccls.	US-PGPUB; USPAT	OR	ON	2007/01/17 12:24
S71	9	S70 and ((extract\$4 same (substrate wafer) with down\$5))	US-PGPUB; USPAT	OR	ON	2007/01/17 12:37
S72	38	ion\$2 same extract\$5) same ((wafer substrate) with (down downward\$2))	US-PGPUB; USPAT	OR	ON	2007/01/17 12:27
S73	28	S72 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 12:28
S74	0	S70 and ((extract\$4 same (substrate wafer)) with (fac\$3 near4 (down\$5 down)))	US-PGPUB; USPAT	OR	ON	2007/01/17 12:38
S75	0	S70 and ((extract\$4 same (substrate wafer)) with (surface near6 (down\$5 down)))	US-PGPUB; USPAT	OR	ON	2007/01/17 12:39
S76	23440	118/715-733.ccls. 156/345 \$2.ccls. 204/192 \$2.ccls. 250/396-492 \$2.ccls.	US-PGPUB; USPAT	OR	ON	2007/01/17 12:40
S77	0	S76 and ((ion\$2 and (extract\$4 same (substrate wafer))) with (surface near6 (down\$5 down)))	US-PGPUB; USPAT	OR	ON	2007/01/17 15:03
S78	33	S76 and (ion\$2 and (substrate wafer)) with (surface near6 (down\$5 down)))	US-PGPUB; USPAT	OR	ON	2007/01/17 12:43
S79	32	S78 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 18:02

S80	33	S76 and SIMOX	US-PGPUB; USPAT; USOCR; EPO; JPO; DERVERT; IBM_TDB	OR	ON	2007/01/17 13:17
S81	28	S80 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 15:08
S82	1	S76 and ((extract\$4 same (substrate wafer)) with (surface near6 (down\$5 down)))	US-PGPUB; USPAT	OR	ON	2007/01/17 15:05
S83	51194	ion near2 (source\$2 shower\$2 generat \$3)	US-PGPUB; USPAT	OR	ON	2007/01/17 15:05
S84	52691	ion\$2 near2 (source\$2 shower\$2 generat\$3)	US-PGPUB; USPAT	OR	ON	2007/01/17 15:06
S85	1687	S84 and ((extract\$4 near3 electrode \$2) and ((wafer substrate) with (upside down)))	US-PGPUB; USPAT	OR	ON	2007/01/17 15:43
S86	121	S84 and ((extract\$4 near3 electrode \$2) and ((wafer substrate) with (upside down)))	US-PGPUB; USPAT	OR	ON	2007/01/17 15:08
S87	93	S86 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 15:57
S88	15013	S84 and ((extract\$4 near3 electrode \$2) and (vertical\$3 orient\$5))	US-PGPUB; USPAT	OR	ON	2007/01/17 15:43
S89	974	S84 and ((extract\$4 near3 electrode \$2) and (vertical\$3 orient\$5))	US-PGPUB; USPAT	OR	ON	2007/01/17 15:44
S90	40	S84 and ((extract\$4 near3 electrode \$2) and (vertical\$3 near4 orient\$5))	US-PGPUB; USPAT	OR	ON	2007/01/17 15:57
S91	24	S90 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 17:45
S92	866	S84 and (vertical\$3 near4 orient\$5)	US-PGPUB; USPAT	OR	ON	2007/01/17 17:44
S93	683	S92 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 16:18
S94	236	S84 and ((vertical\$3 near4 orient\$5) and extract\$4)	US-PGPUB; USPAT	OR	ON	2007/01/17 16:20
S95	180	S94 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 16:20
S96	119	S84 and ((beam near2 axis) with (vertical\$3 orient\$5)) and extract\$5)	US-PGPUB; USPAT	OR	ON	2007/01/17 17:59
S97	77	S96 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 17:45
S98	70	S97 not S95	US-PGPUB; USPAT	OR	ON	2007/01/17 17:46
S99	47	(ion\$2 near3 (source\$2 generat\$4 shower\$2)) and ((beam near2 axis) with (vertical\$3 orient\$5)) and (extract \$5) and ((substrate wafer) near6 (up \$5 above))	US-PGPUB; USPAT	OR	ON	2007/01/17 18:10
S100	25	S99 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 18:11

S101	2	((ion\$2 near3 implant\$5) and ((beam near2 axis) with (vertical\$3 near3 orient\$5)) and (extract\$5) and ((substrate wafer) near6 (up\$5 above)))	US-PGPUB; USPAT	OR	ON	2007/01/17 18:09
S102	17	((ion\$2 near3 (source\$2 generat\$4 shower\$2)) and ((beam near2 axis) near7 vertical\$3) and (extract\$5) and ((substrate wafer) near6 (up\$5 above)))	US-PGPUB; USPAT	OR	ON	2007/01/17 18:11
S103	20	((ion\$2 near3 (implant\$4 source\$2 generat\$4 shower\$2)) and ((beam near2 axis) near7 vertical\$3) and (extract\$5) and ((substrate wafer) near6 (up\$5 above)))	US-PGPUB; USPAT	OR	ON	2007/01/17 18:13
S104	11	S103 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 18:14
S105	15	((ion\$2 near3 (implant\$4 source\$2 generat\$4 shower\$2)) and ((beam near2 axis) near7 vertical\$3) and (extract\$5) and ((substrate wafer) near6 (down\$5 towards)))	US-PGPUB; USPAT	OR	ON	2007/01/17 18:21
S106	10	S105 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 18:22
S107	40	((ion\$2 particle\$2) and ((beam near2 axis) near7 vertical\$3) and (extract\$5) and ((substrate wafer) near6 (up\$5 above down\$5 towards)))	US-PGPUB; USPAT	OR	ON	2007/01/17 18:35
S108	23	S107 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 18:34
S109	1436	250/492.3.ccls.	US-PGPUB; USPAT	OR	ON	2007/01/17 18:34
S110	1138	S109 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 18:44
S111	203	((beam near2 axis) near7 (perpendicular\$4 vertical\$3)) and (extract\$5) and ((substrate wafer) near6 (up\$5 above down\$5 towards)))	US-PGPUB; USPAT	OR	ON	2007/01/17 18:41
S112	143	S111 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 18:39
S113	533	((beam near2 axis) near7 (perpendicular\$4 vertical\$3)) and (extract\$5) and ((sample object substrate wafer) near6 (up\$5 above down\$5 towards)))	US-PGPUB; USPAT	OR	ON	2007/01/17 18:38
S114	25	S109 and ((beam near2 axis) near7 (perpendicular\$4 vertical\$3)) and (extract\$5) and ((sample object substrate wafer) near6 (up\$5 above down\$5 towards)))	US-PGPUB; USPAT	OR	ON	2007/01/17 18:38
S115	10	S114 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 19:04
S116	4	S110 and ((beam near2 axis) near7 (perpendicular\$4 vertical\$3)) and (extract\$5) and ((substrate wafer) near6 (up\$5 above down\$5 towards)))	US-PGPUB; USPAT	OR	ON	2007/01/17 18:42

S117	10	S110 and ((beam near2 axis) near7 (perpendicular\$4 vertical\$3)) and (extract\$5) and ((substrate wafer object sample) near6 (up\$5 above down\$5 towards))	US-PGPUB; USPAT	OR	ON	2007/01/17 18:43
S118	36	("3347701"   "3437734"   "3458368"   "3516855").PN. OR ("3908183").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/17 18:51
S119	36	("3347701"   "3437734"   "3458368"   "3516855").PN. OR ("3908183").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/17 19:03
S120	298	S110 and implant\$5	US-PGPUB; USPAT; USOCR	OR	ON	2007/01/17 19:04
S121	298	S120 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/17 19:04
S122	1436	250/492.3.cols.	US-PGPUB; USPAT	OR	ON	2007/01/18 13:01
S123	1138	S122 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/18 13:29
S124	121	S123 and (implant\$5 and plasma)	US-PGPUB; USPAT	OR	ON	2007/01/18 13:13
S125	112	S123 and (extract\$5 and plasma)	US-PGPUB; USPAT	OR	ON	2007/01/18 13:27
S126	23457	118/715-733.cds. 156/345. \$2.cds. 204/192. \$2.cds. 250/396-492. \$2.cds.	US-PGPUB; USPAT	OR	ON	2007/01/18 13:28
S127	641	S126 and ((substrate wafer object sample) with orient\$5 with (vertical\$4 horizontal\$4 tilt\$3 incln\$3))	US-PGPUB; USPAT	OR	ON	2007/01/18 13:29
S128	72	S126 and ((substrate wafer object sample) with orient\$5 with (vertical\$4 horizontal\$4 tilt\$3 incln\$3)) and extract\$4	US-PGPUB; USPAT	OR	ON	2007/01/18 13:29
S129	60	S128 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/18 18:13
S130	2	"20050098742"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/18 17:55
S131	54	(US-20030197129-\$ or US-20020014587-\$ or US-20030217474-\$ or US-20030085663-\$ or US-20010038079-\$ or US-20030132397-\$ or US-20040007678-\$ or US-2004079289-\$ or US-20030116090-\$ or US-20030013280-\$ or US-20040140432-\$ or US-20030127592-\$ or US-20030079688-\$ or US-20040040506-\$).did. or (US-7064049-\$ or US-6545419-\$ or US-5858450-\$ or US-6744214-\$ or US-6933507-\$ or US-6841789-\$ or US-6797967-\$ or US-5563418-\$ or US-5420437-\$ or US-5022977-\$ or US-3908183-\$ or US-4361762-\$ or US-4227961-\$ or US-4140546-\$ or US-4120700-\$ or US-3437734-\$ or US-4825087-\$ or US-4661710-\$ or US-3999097-\$ or US-5036252-\$ or US-7011866-\$ or US-	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/01/18 17:59

		6514348-\$ or US-6710360-\$ or US-6617587-\$ or US-7107929-\$ or US-6753539-\$).did. or (US-5254830-\$ or US-5124557-\$ or US-6716727-\$ or US-4453078-\$ or US-6077569-\$ or US-5679413-\$ or US-5508368-\$ or US-4736107-\$ or US-4700077-\$ or US-4672210-\$ or US-6331713-\$ or US-5825038-\$).did. or (US-3347701-\$).did. or (US-20050098742-\$).did.				
S132	1	\$131 and (extract\$4 with (hole\$2 aperture\$2 opening\$2) with (pump\$3 pressure))	US-PGPUB; USPAT; USOCR; DERMENT	OR	ON	2007/01/18 18:04
S133	23	\$126 and (extract\$4 with (hole\$2 aperture\$2 opening\$2) with (pump\$3 pressure))	US-PGPUB; USPAT	OR	ON	2007/01/18 18:12
S134	17	\$133 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/18 18:05
S135	114	((ion\$2 same ((extract\$4 with (hole\$2 aperture\$2 opening\$2) with (pump\$3 pressure))))	US-PGPUB; USPAT	OR	ON	2007/01/18 18:13
S136	85	\$135 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/01/18 18:21
S137	1	"3961103".pn.	US-PGPUB; USPAT	OR	ON	2007/01/18 18:21
S138	1817	((plasma ion\$2) near4 (source\$2 generator\$2)) and extract\$4 and ((substrate wafer workpiece object) near5 (down\$5 towards))	US-PGPUB; USPAT	OR	ON	2007/11/12 20:40
S139	376	((plasma ion\$2) near4 (source\$2 generator\$2)) and (extract\$4 same ((substrate wafer workpiece object) near5 (down\$5 towards)))	US-PGPUB; USPAT	OR	ON	2007/11/12 20:41
S140	300	\$139 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/11/12 20:41
S141	76	\$140 and "250"/\$.cls.	US-PGPUB; USPAT	OR	ON	2007/11/12 22:11
S142	67	\$140 and (118/715-733.cls. 156/345. \$.cls.)	US-PGPUB; USPAT	OR	ON	2007/11/12 22:32
S143	64	\$142 not S141	US-PGPUB; USPAT	OR	ON	2007/11/12 22:30
S144	32	S143 and implant\$5	US-PGPUB; USPAT	OR	ON	2007/11/12 22:30
S145	136	\$140 and ("204"/\$.cls. 315/111.\$2. cls. "42"/\$.cls. "438"/\$.cls.)	US-PGPUB; USPAT	OR	ON	2007/11/12 22:34
S146	159	\$140 and ("204"/\$.cls. 315/111.\$2. cls. "427"/\$.cls. "438"/\$.cls.)	US-PGPUB; USPAT	OR	ON	2007/11/12 22:34
S147	878	(Extract\$4 near4 electrode\$2) with (chamber reactor housing)	US-PGPUB; USPAT	OR	ON	2007/11/13 14:39
S148	866	(Extract\$4 near4 electrode\$2) with (chamber reactor housing)	US-PGPUB; USPAT	OR	ON	2007/11/13 14:39
S149	69	\$148 and "204"/\$.cls.	US-PGPUB; USPAT	OR	ON	2007/11/13 14:40
S150	63	\$149 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/11/13 16:41

S151	7	("20010047760"   "5218210"   "5846883"   "6488807"   "6552295"   "6768120"   "6936144").PN.	US-PGPUB; USPAT	OR	ON	2007/11/13 16:02
S152	0	"4676194.pn."	US-PGPUB; USPAT	OR	ON	2007/11/13 16:02
S153	1	"4676194".pn.	US-PGPUB; USPAT	OR	ON	2007/11/13 16:02
S154	15	("4152478").PN. OR ("4676194").URPN	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/13 16:40
S155	1274	204/192.1.colc. 204/298.01,298.02. colc.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/13 16:40
S156	782	S155 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/11/13 16:46
S157	1	S156 and ((chamber with extract\$4) and ((substrate wafer workpiece object) near6 down\$5))	US-PGPUB; USPAT	OR	ON	2007/11/13 18:03
S158	13	S156 and (chamber with extract\$4)	US-PGPUB; USPAT	OR	ON	2007/11/13 16:46
S159	166	"438"/\$ and implant\$5 and (chamber with extract\$4)	US-PGPUB; USPAT	OR	ON	2007/11/13 16:46
S160	112	S159 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/11/13 17:01
S161	330	(implant\$5 same (ion\$2 near4 (source generator shower)) same (extract\$4 near7 (chamber reactor housing)))	US-PGPUB; USPAT	OR	ON	2007/11/13 17:00
S162	208	S161 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/11/13 18:00
S163	122	("3117022"   "3294583"   "3297465"   "3303319"   "3494852"   "3534385"   "3751310").PN. OR ("3961103").URPN	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/13 17:59
S164	110	S163 and @ad<"20031106"	US-PGPUB; USPAT	OR	ON	2007/11/13 18:00
S165	8	S164 and (extract\$4 with (pressure vacuum))	US-PGPUB; USPAT	OR	ON	2007/11/13 18:03
S166	13	S165 and (extract\$4 with (pressure vacuum))	US-PGPUB; USPAT	OR	ON	2007/11/13 18:05
S167	2	S166 and ((extract\$4 near4 (electrode \$2 assembly)) with (pressure vacuum))	US-PGPUB; USPAT	OR	ON	2007/11/13 18:05
S168	1031	(ion\$2 implant\$5) same (extract\$4 near7 pressure)	US-PGPUB; USPAT	OR	ON	2008/05/13 14:41
S169	772	S168 and @ad<"20040121"	US-PGPUB; USPAT	OR	ON	2008/05/13 14:41
S170	129	S169 and ("204"/\$.colc. "250"/\$.colc.)	US-PGPUB; USPAT	OR	ON	2008/05/13 14:46
S171	39	(ion\$2 implant\$5) same (extract\$4 near7 (hole\$2 aperture\$2 opening\$2) near7 pressure)	US-PGPUB; USPAT	OR	ON	2008/05/13 14:46
S172	20	S171 and @ad<"20040121"	US-PGPUB; USPAT	OR	ON	2008/05/13 14:47
S173	3	(ion\$2 implant\$5) same ((extract\$4 near4 assembly) with (hole\$2 aperture \$2 opening\$2) with pressure)	US-PGPUB; USPAT	OR	ON	2008/05/13 14:52

St174	32	((ion\$2 implant\$5) same ((extract\$4 near4 electrode\$2) with (hole\$2 aperture\$2 opening\$2) with pressure))	US-PGPUB; USPAT	OR	ON	2008/05/13 14:54
St175	27	St174 and @ad<"20040121"	US-PGPUB; USPAT	OR	ON	2008/05/13 14:54
St176	553	((ion\$2 implant\$5) same ((hole\$2 aperture\$2 opening\$2) near6 (offset offline misalign\$3)))	US-PGPUB; USPAT	OR	ON	2008/05/13 15:18
St177	142	((ion\$2 implant\$5) and ((extract\$4 electrostatics\$4) same ((hole\$2 aperture\$2 opening\$2) near6 (offset offline misalign\$3))))	US-PGPUB; USPAT	OR	ON	2008/05/13 15:19
St178	89	St177 and @ad<"20040121"	US-PGPUB; USPAT	OR	ON	2008/05/13 15:19
St179	87	((((ion\$2 implant\$5) same ((hole\$2 aperture\$2 opening\$2) near6 (offset offline misalign\$3))).clm.	US-PGPUB; USPAT	OR	ON	2008/05/16 10:12
St180	73	118/723C8.ccl.s	US-PGPUB; USPAT	OR	ON	2008/05/16 11:30
St181	143	((ion\$2 implant\$5) and ((extract\$4 electrostatics\$4) same ((hole\$2 aperture\$2 opening\$2) near6 (offset offline misalign\$3))))	US-PGPUB; USPAT	OR	ON	2008/05/16 11:34
St182	89	St181 and @ad<"20040121"	US-PGPUB; USPAT	OR	ON	2008/05/16 11:34
St183	1	St180 and St182	US-PGPUB; USPAT	OR	ON	2008/05/16 11:34

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